Attorney Docket: 844,004-263

(prev 269/132)

AMENDMENTS TO THE CLAIMS:

The listing of claims shown below will replace all prior versions, and listings, of claims in the Application:

(Amended) A Micro-Electro-Mechanical System apparatus, comprising:
a substrate;

a passivation layer on the substrate, the passivation layer having a top surface; and

a microstructure suspended above the substrate, the microstructure having a bottom surface facing the top surface of the passivation layer, the microstructure being moveable toward the passivation layer;

wherein the passivation layer is patterned to form a plurality of spaced protuberances .

- 2. (Previously Cancelled)
- 3. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein the bottom surface of the microstructure is substantially flat.
- 4. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein at least one of the protuberances has a square cross section.

P.06/11

Attorney Docket: 844,004-263

(prev 269/132)

- (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein at least one of the protuberances has a rectangular cross section.
- (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein at least one of the protuberances has a hexagonal cross section.

- (Previously Presented) The Micro-Electro-Mechanical System apparatus Ago. 30, 3E of claim 1, wherein the passivation layer is patterned to form a mesh.
 - 8. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 7, wherein the bottom surface of the microstructure is substantially flat.
- (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 7, wherein the mesh is a square mesh.
- (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 7, wherein the mesh is a hexagonal mesh.
- 11. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein the passivation layer comprises polyimide.
 - (Previously Pres nted) 12. The Micro-Electro-M chanical Syst m apparatus

Pat nt

Attorney Docket: 844,004-263

(prev 269/132)

of claim 1, wherein the passivation layer comprises silicon nitride.

13. (Amended) A Micro-Electro-Mechanical System apparatus, comprising: a substrate;

a passivation layer on the substrate, the passivation layer having a top surface;

a support attached to the substrate; and

a beam attached at one end to the support and suspended above the substrate, the beam having a bottom surface facing the top surface of the passivation layer, the beam being moveable toward the passivation layer;

wherein the passivation layer is patterned to form a plurality of spaced protuberances .

- 14. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, further comprising a second support attached to the substrate and wherein the beam is attached to the second support at a second end.
 - 15. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, further comprising a bottom electrode on the substrate and underneath the bottom surface of the beam.
 - 16. (Previously Cancelled)

P.08/11

Attorney Docket: 844,004-263

(prev 269/132)

- 17. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein the bottom surface of the beam is substantially flat.
- (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein at least one of the protuberances has a square cross section.

(Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein at least one of the protuberances has a rectangular cross section.

(Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein at least one of the protuberances has a hexagonal cross section.

(Previously Presented) The Micro-Electro-Mechanical System apparatus figo. 30,3E of claim 13, wherein the passivation layer is patterned to form a mesh.

- (Previously Presented) The Micro-Electro-Mechanical System apparatus 22. of claim 21, wherein the bottom surface of the beam is substantially flat.
- 23. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 21, wherein the mesh is a square mesh.
- 24. (Previously Presented) The Micro-Electro-Mechanical System apparatus

Attorney Docket: 844,004-263

(prev 269/132)

of claim 21, wherein the mesh is a hexagonal mesh.

25. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein the passivation layer comprises polyimide.

ال

26. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein the passivation layer comprises silicon nitride.

Claims 27-38 (Previously Cancelled)

- 39. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein the passivation layer is made of a dielectric material selected from the group consisting of silicon oxide, strontium titanate oxide, barium strontium titanate, and benzocyclobutene.
- 40. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein the passivation layer is made of a dielectric material selected from the group consisting of silicon oxide, strontium titanate oxide, barium strontium titanate, and benzocyclobutene.